

Claims

1. Method of calculating the Voltage Standing Wave Ratio of a radio frequency transmission line which is operatively coupled with a first and a second directional coupler, the first directional coupler developing a first voltage indicative of the forward power propagating along the radio frequency transmission line in a first direction, the second directional coupler developing a second voltage indicative of a reflected power propagating along the radio frequency transmission line in a reverse direction, whereby the steps of, in a second stage of installation, collecting values of the first and the second voltage, connecting at least one correction value with the second voltage to form a corrected second voltage, and forming the Voltage Standing Wave Ratio on the basis of the first voltage and the corrected second voltage.
2. The method of claim 1, whereby connecting the at least one predetermined correction value with the second voltage additively.
3. The method of claim 1, wherein the at least one correction value is proportional to the first voltage.
4. The method of claim 3, wherein the first voltage is multiplied with a predetermined correction factor to form the correction value.
5. The method of any of the preceding claims, whereby, in a first stage of installation, terminating the radio frequency transmission line with a load resistance of a predetermined quality, collecting values of the first and the second voltage, forming a correction

factor such, that a predetermined relationship between the first voltage, the second voltage and the correction factor is fulfilled, storing the correction factor, and, utilizing the stored correction factor in a second stage of installation.

6. The method of claim 5, wherein a plurality of correction factors is formed, each correction factor being allocated to a predetermined frequency of the standing voltage wave.
7. The method of claim 5 or 6, wherein the predetermined relationship is fulfilled when the sum of the second voltage and the product of the first voltage and the correction factor is equal to zero.
8. Base station in a mobile communication system comprising an antenna feeding line and a first and a second directional coupler that are operatively coupled with the antenna feeding line, the first directional coupler developing a first voltage indicative of the forward power propagating along the antenna feeding line in a first direction, the second directional coupler developing a second voltage indicative of a reflected power propagating along the antenna feeding line in a reverse direction, whereby a control unit receiving the first and the second voltage and having a memory wherein a predetermined correction factor is stored, the control unit forming a corrected second voltage in dependence on the predetermined correction factor, and forming the Voltage Standing Wave Ratio on the basis of the first voltage and the corrected second voltage.
9. The base station of claim 8, whereby a demodulator interposed between the control unit and the first and

second directional coupler, respectively.

10. The base station of claim 8 or 9, whereby implementing the method of any of claims 1 to 7.